



Atty Docket No. 018547-048820US

TO FAX NO.: 1-571-273-2885

ATTENTION: Examiner Marianne P. Allen Group Art Unit 1647

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CERTIFICATION OF FACSIMILE TRANSMISSION

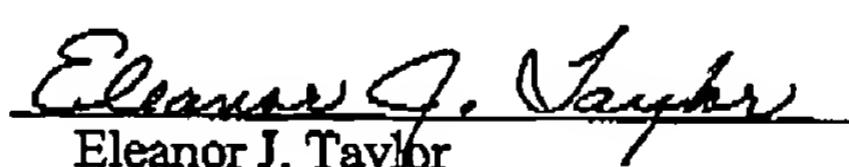
I hereby certify that the following documents in re Application of Michael A. Siani-Rose et al., Application No. 09/683,264, filed December 5, 2001 for COMPUTER SOFTWARE FOR AUTOMATED ANNOTATION OF BIOLOGICAL SEQUENCES are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Documents Attached

1. Transmittal Form (1 p)
2. Part B - Fee Transmittal (1 p)
3. Copy Part B - Fee Transmittal (1 p)
4. Communication - Comments on Statement for Reasons for Allowance (3 pp)
5. Copy of this Certification of Facsimile Transmission (1 p)

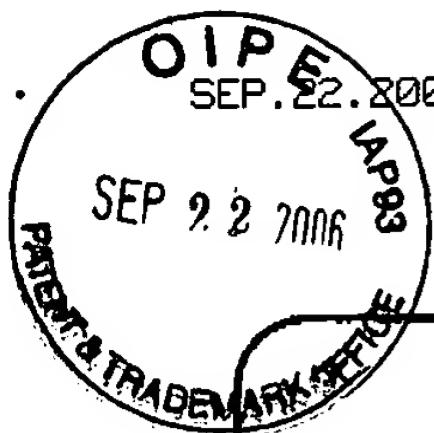
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Dated: September 22, 2006


Eleanor J. Taylor

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NO. 386

P. 2/7

PTO/SB/21 (07-06)

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages In This Submission

| | |
|--|---|
| Application Number | 09/683,264 |
| Filing Date | December 5, 2001 |
| First Named Inventor | Michael A. Siani-Rose et al. |
| Art Unit | 1647 |
| Examiner Name | Marianne P. Allen |
| Total Number of Pages In This Submission | Attorney Docket Number 018547-048820US |

ENCLOSURES (Check all that apply)

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|--|---|--|
| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers | <input checked="" type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): •Certification of Facsimile Transmission •Part B - Fee Transmittal •Copy of Part B - Fee Transmittal •Communication - Comments on Statement for Reasons for Allowance |
| <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address | |
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| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | Remarks | The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430. |
| <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | | |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

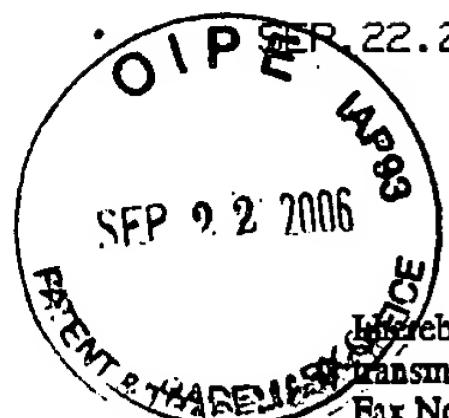
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|--------------|------------------------------------|----------|--------|
| Firm Name | Townsend and Townsend and Crew LLP | | |
| Signature | | | |
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| Date | September 22, 2006 | Reg. No. | 51,995 |

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TOWNSEND and TOWNSEND and CREW LLP

By: Eduanne J. Taylor

PATENT
Docket No.: 018547-048820US
Client Ref. No.: 3407.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Michael A. Siani-Rose et al.

Application No.: 09/683,264

Filed: December 5, 2001

For: COMPUTER SOFTWARE FOR
AUTOMATED ANNOTATION OF
BIOLOGICAL SEQUENCES

Customer No.: 33494

Confirmation No.: 1024

Examiner: Marianne P. Allen

Art Unit: 1647

**COMMUNICATION - COMMENTS ON
STATEMENT FOR REASONS FOR
ALLOWANCE**

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Examiner's Statement of Reasons for Allowance, Applicants note that claim 82 recites:

82. A computer implemented method for gene characterization comprising:
generating a plurality of models using structural relationships of known proteins;
inputting a plurality of protein sequences;
determining a plurality of scores by comparing the plurality of protein sequences with the plurality of models;
automatically selecting a plurality of hits based on at least the plurality of scores; and
assigning the plurality of protein sequences to the plurality of models based on at least the plurality of selected hits;

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wherein:

the automatically selecting a plurality of hits comprises determining a threshold for each of the plurality of models;

the determining a threshold comprises performing a curve analysis.

Applicants also note that claim 90 states that:

90. A system for gene characterization comprising a processor; and a memory coupled with the processor, the memory storing a plurality of machine instructions that cause the processor to perform logical processes comprising:

generating a plurality of models using structural relationships of known proteins;
inputting a plurality of protein sequences;

determining a plurality of scores by comparing the plurality of protein sequences with the plurality of models;

automatically selecting a plurality of hits based on at least the plurality of scores;
and

assigning the plurality of protein sequences to the plurality of models based on at least the plurality of selected hits;

wherein:

the automatically selecting a plurality of hits comprises determining a threshold for each of the plurality of models;

the determining a threshold comprises performing a curve analysis.

Applicants also note that claim 98 states that:

98. A computer software product for gene characterization comprising a computer readable medium having computer executable instructions for performing the method comprising:

generating a plurality of models using structural relationships of known proteins;
inputting a plurality of protein sequences;

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determining a plurality of scores by comparing the plurality of protein sequences with the plurality of models;

automatically selecting a plurality of hits based on at least the plurality of scores; and

assigning the plurality of protein sequences to the plurality of models based on at least the plurality of selected hits;

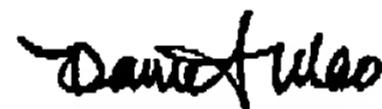
wherein:

the automatically selecting a plurality of hits comprises determining a threshold for each of the plurality of models;

the determining a threshold comprises performing a curve analysis.

None of the prior art references teach or suggest a computer implemented method for gene characterization, a system for gene characterization, or a computer software product for gene characterization as recited in any of these claims.

Respectfully submitted,



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Reg. No. 51,995

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